



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EGW-2-LED-14L-CA-S-40-80.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 3649  
[TESTLAB] TUV SUD America  
[TESTDATE] 1/16/2019 1:57:47 PM  
[ISSUEDATE] 03/11/21  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] EGW-2-LED-14L-CA-S-40-80  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor  
[SEARCH\_COLORTEMP] 4000

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13705
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.33 ft



**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	37678	26747	37409
55	33975	22704	29779
65	27076	16736	20026
75	25985	11775	7927
85	18871	7743	2020

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0.0</b>	5531	5531	5531	5531	5531	5531	5531	5531	5531	5531
<b>2.5</b>	4749	4474	4683	5274	5801	4862	4245	4153	4370	4153
<b>5.0</b>	4353	4259	3737	4045	5752	3785	3819	4069	4196	4069
<b>7.5</b>	4686	4288	4165	3454	5719	3595	3778	4560	5215	4560
<b>10.0</b>	5287	5420	4108	3559	5665	3839	4290	5741	5663	5741
<b>12.5</b>	4726	4877	4859	3997	5624	3681	5693	4493	3855	4493
<b>15.0</b>	3894	3927	5175	4162	5549	3404	5160	3306	3278	3306
<b>17.5</b>	4385	3671	4009	3827	5481	3471	3298	3555	4559	3555
<b>20.0</b>	4784	4850	3609	3873	5394	4328	2995	4758	5151	4758
<b>22.5</b>	3806	4580	3575	4886	5268	5816	3184	4236	3261	4236
<b>25.0</b>	3118	3218	4188	5545	5148	5960	4359	2976	3176	2976
<b>27.5</b>	3016	3031	4353	4648	5019	4234	4552	3090	4296	3090
<b>30.0</b>	3136	2986	3567	3366	4939	2909	3121	4041	4376	4041
<b>32.5</b>	3582	3085	2914	2843	4819	2605	2718	4514	3849	4514
<b>35.0</b>	3589	3403	2798	3021	4708	2467	3067	3650	3923	3650
<b>37.5</b>	3469	3436	2686	3171	4562	2494	3733	3424	3339	3424
<b>40.0</b>	3199	3373	2699	3353	4406	3398	4111	3386	3304	3386
<b>42.5</b>	2817	2996	2913	3843	4265	3772	3460	2943	3315	2943
<b>45.0</b>	2890	2704	2794	3287	4098	2844	3023	2970	3097	2970
<b>47.5</b>	2975	2782	2816	2351	3872	2529	2742	2924	2787	2924
<b>50.0</b>	2715	2755	2699	2091	3612	2514	2342	2853	2299	2853
<b>52.5</b>	2195	2523	2381	2064	3354	2497	2266	2208	2528	2208
<b>55.0</b>	2243	2072	2229	1963	3099	2468	2165	2085	2245	2085
<b>57.5</b>	2074	2069	2079	1856	2882	2356	2112	2130	2097	2130
<b>60.0</b>	1823	1973	1981	1756	2600	1985	1831	1690	2086	1690
<b>62.5</b>	1875	1745	1700	1592	2266	1625	1490	1679	1696	1679
<b>65.0</b>	1444	1742	1488	1374	1911	1395	1454	1661	1947	1661
<b>67.5</b>	1408	1438	1415	1224	1571	1186	1374	1405	1543	1405
<b>70.0</b>	1309	1298	1267	1115	1229	972	1111	1509	1374	1509
<b>72.5</b>	1030	1266	1069	959	921	760	1007	1216	1393	1216
<b>75.0</b>	1014	1009	906	786	665	612	937	1097	1302	1097
<b>77.5</b>	1123	1017	782	646	458	517	918	1260	1286	1260
<b>80.0</b>	843	951	784	526	308	431	831	912	912	912
<b>82.5</b>	535	621	704	411	208	369	585	639	701	639
<b>85.0</b>	444	422	485	338	141	299	395	483	538	483
<b>87.5</b>	360	341	318	253	96	187	315	426	483	426
<b>90.0</b>	327	301	232	160	62	149	284	382	435	382
<b>92.5</b>	313	287	190	123	55	137	281	359	404	359
<b>95.0</b>	313	283	181	116	58	129	286	342	366	342
<b>97.5</b>	273	271	182	115	59	116	271	317	319	317
<b>100.0</b>	221	229	176	107	56	100	241	282	296	282
<b>102.5</b>	198	198	164	95	51	80	213	268	296	268
<b>105.0</b>	185	182	154	79	43	56	180	250	284	250
<b>107.5</b>	172	166	140	58	37	36	147	222	255	222
<b>110.0</b>	156	148	122	36	30	20	124	194	226	194
<b>112.5</b>	138	131	102	18	24	9	100	172	200	172
<b>115.0</b>	124	115	80	9	18	5	70	152	182	152
<b>117.5</b>	113	104	58	6	12	2	45	131	166	131
<b>120.0</b>	103	91	40	3	8	1	31	103	143	103
<b>122.5</b>	86	72	28	2	5	0	22	71	108	71
<b>125.0</b>	65	52	19	1	2	0	10	55	78	55
<b>127.5</b>	49	38	6	0	1	0	1	40	62	40
<b>130.0</b>	35	30	0	0	0	0	0	31	44	31
<b>132.5</b>	27	22	0	0	0	0	0	15	32	15

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**CANDELA TABULATION - (Cont.)**

135.0	19	7	0	1	1	0	0	1	15	1
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	5531	5531	5531	5531	5531	5531	5531
2.5	4245	4862	5801	5274	4683	4474	4749
5.0	3819	3785	5752	4045	3737	4259	4353
7.5	3778	3595	5719	3454	4165	4288	4686
10.0	4290	3839	5665	3559	4108	5420	5287
12.5	5693	3681	5624	3997	4859	4877	4726
15.0	5160	3404	5549	4162	5175	3927	3894
17.5	3298	3471	5481	3827	4009	3671	4385
20.0	2995	4328	5394	3873	3609	4850	4784
22.5	3184	5816	5268	4886	3575	4580	3806
25.0	4359	5960	5148	5545	4188	3218	3118
27.5	4552	4234	5019	4648	4353	3031	3016
30.0	3121	2909	4939	3366	3567	2986	3136
32.5	2718	2605	4819	2843	2914	3085	3582
35.0	3067	2467	4708	3021	2798	3403	3589
37.5	3733	2494	4562	3171	2686	3436	3469
40.0	4111	3398	4406	3353	2699	3373	3199
42.5	3460	3772	4265	3843	2913	2996	2817
45.0	3023	2844	4098	3287	2794	2704	2890
47.5	2742	2529	3872	2351	2816	2782	2975
50.0	2342	2514	3612	2091	2699	2755	2715
52.5	2266	2497	3354	2064	2381	2523	2195
55.0	2165	2468	3099	1963	2229	2072	2243
57.5	2112	2356	2882	1856	2079	2069	2074
60.0	1831	1985	2600	1756	1981	1973	1823
62.5	1490	1625	2266	1592	1700	1745	1875
65.0	1454	1395	1911	1374	1488	1742	1444
67.5	1374	1186	1571	1224	1415	1438	1408
70.0	1111	972	1229	1115	1267	1298	1309
72.5	1007	760	921	959	1069	1266	1030
75.0	937	612	665	786	906	1009	1014
77.5	918	517	458	646	782	1017	1123
80.0	831	431	308	526	784	951	843

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82.5	585	369	208	411	704	621	535
85.0	395	299	141	338	485	422	444
87.5	315	187	96	253	318	341	360
90.0	284	149	62	160	232	301	327
92.5	281	137	55	123	190	287	313
95.0	286	129	58	116	181	283	313
97.5	271	116	59	115	182	271	273
100.0	241	100	56	107	176	229	221
102.5	213	80	51	95	164	198	198
105.0	180	56	43	79	154	182	185
107.5	147	36	37	58	140	166	172
110.0	124	20	30	36	122	148	156
112.5	100	9	24	18	102	131	138
115.0	70	5	18	9	80	115	124
117.5	45	2	12	6	58	104	113
120.0	31	1	8	3	40	91	103
122.5	22	0	5	2	28	72	86
125.0	10	0	2	1	19	52	65
127.5	1	0	1	0	6	38	49
130.0	0	0	0	0	0	30	35
132.5	0	0	0	0	0	22	27
135.0	0	0	1	1	0	7	19
137.5	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1656.06	N.A.	12.10
0-30	3583.8	N.A.	26.10
0-40	5728.93	N.A.	41.80
0-60	10200.87	N.A.	74.40
0-80	12756.39	N.A.	93.10
0-90	13211.03	N.A.	96.40
10-90	12783.27	N.A.	93.30
20-40	4072.87	N.A.	29.70
20-50	6472.13	N.A.	47.20
40-70	6033.77	N.A.	44.00
60-80	2555.52	N.A.	18.60
70-80	993.68	N.A.	7.30
80-90	454.64	N.A.	3.30
90-110	388.42	N.A.	2.80
90-120	465.00	N.A.	3.40
90-130	490.53	N.A.	3.60
90-150	494.16	N.A.	3.60
90-180	494.16	N.A.	3.60
110-180	105.74	N.A.	0.80
0-180	13705.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	427.75
10-20	1228.31
20-30	1927.74
30-40	2145.13
40-50	2399.26
50-60	2072.68
60-70	1561.84
70-80	993.68
80-90	454.64
90-100	233.70
100-110	154.72
110-120	76.58
120-130	25.54
130-140	3.63
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

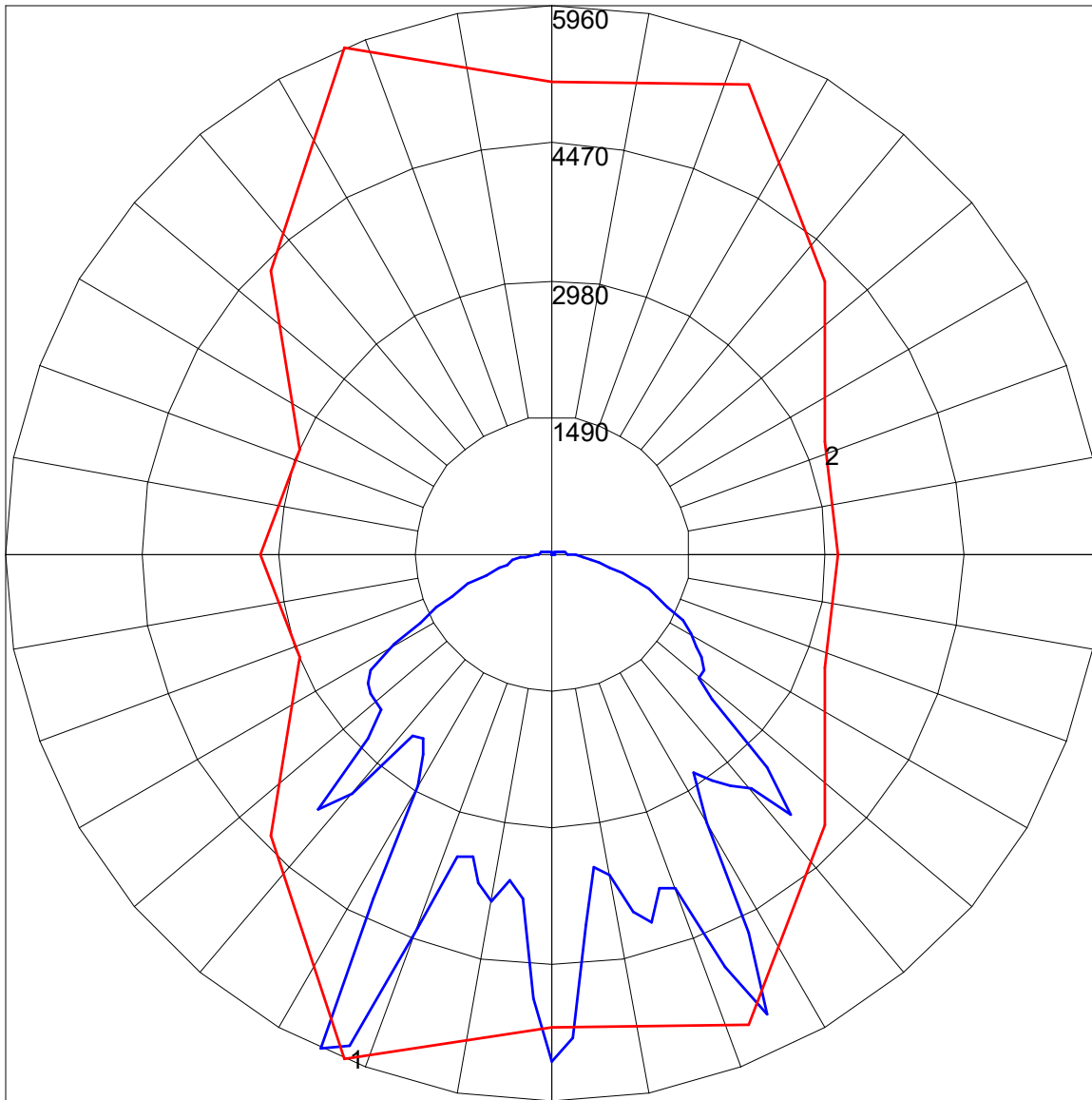
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	107	102	98	94	104	100	95	92	95	91	88	90	87	85	86	84	82	79
2	97	89	82	76	94	87	80	75	83	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	64	57	52	62	55	50	59	54	49	47
5	75	62	53	46	72	60	52	45	58	50	45	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	43	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	26	51	38	31	25	37	30	25	36	29	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 5960 Located At Horizontal Angle = 112.5, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)